



PATENT  
Docket No. 203PR07071-US-CIP2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Larry F. Rhodes et al. Art Unit No.: 1713  
Serial No.: 10/614,502 Examiner:  
Filed: July 7, 2003 Date: April 7, 2004  
For: **PHOTO-IMAGEABLE COMPOSITIONS OF NORBORNE AND ACRYLATE COPOLYMERS AND USE THEREOF**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

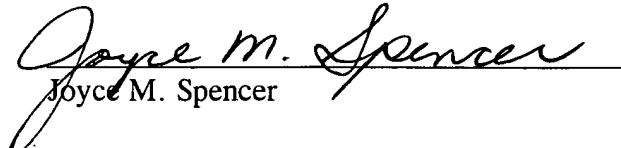
**CERTIFICATE OF MAILING**

Sir:

The undersigned hereby certifies that the attached **INFORMATION DISCLOSURE STATEMENT, FORM PTO-1449, AND SIX (6) REFERENCES** were mailed to the Commissioner for Patents, Alexandria, VA 22313-1450, with sufficient first-class postage, no special handling, on April 7, 2004, before 5:00 PM, thereby ensuring that such document(s) will be in the hands of the U.S. Postal Service by the close of business this day.

Respectfully submitted,

HUDAK SHUNK & FARINE CO., L.P.A.

By:   
Joyce M. Spencer

2020 Front St., Suite 307  
Cuyahoga Falls, OH 44221  
330-535-2220  
Attorney Docket No. 203PR07071-US-CIP2



Practitioner's Docket No. 203PR07071-US-CIP2

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Issue application of: Larry F. Rhodes et al.

Group No.: 1713

Application No.: 10/614,502

Examiner:

Filed: July 7, 2003

Date: April 7, 2004

For: **PHOTO-IMAGEABLE COMPOSITIONS OF NORBORNENE AND ACRYLATE COPOLYMERS AND USE THEREOF**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

This invention relates generally to photo-imageable compositions encompassing copolymers prepared from norbornene-type and acrylate-type monomers, and more specifically, to the use of such photo-imageable copolymers in providing pattern transfer to an underlying layer(s).

As authorized and encouraged under 37 C.F.R. §1.97-1.99, applicant hereby cites as a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, the following patents and/or documents, which the Examiner should consider with respect to the above-identified U.S. patent application:

U.S. DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	INVENTOR(S)
3,697,490	October 10, 1972	Starmer
4,849,488	July 18, 1989	Starzewski et al.
6,034,259	March 7, 2000	Brookhart et al.
6,057,466	May 2, 2000	Starzewski et al.
FOREIGN DOCUMENTS		
DOCUMENT NO.	DATE	COUNTRY
0 837 079	April 22, 1998	EP
04063810 (with translation)	February 28, 1992	JP
PUBLICATIONS		
"Block Copolymers by Transformation of Living Ring-Opening Metathesis Polymerization into Controlled/"Living" Atom Transfer Radical Polymerization", S. Coca, Hyun-jong Paik, K. Matyjaszewski, <i>American Chemical Society, Macromolecules</i> , 1997, Chapter 30, pages 6513-6516.		
"Mechanistic Studies of the Palladium-Catalyzed Copolymerization of Ethylene and $\alpha$ -Olefins with Methyl Acrylate", S. Mecking, L. Johnson, L. Wang, M. Brookhart, <i>American Chemical Society Publication</i> , 1998, Chapter 120, pages 888-899.		
"New Catalysts for the Polymerization and Copolymerization of Functional Olefins", Ayusman Sen, <i>Polymeric Materials: Science &amp; Engineering</i> , 2001, 84, page 321.		
"Neutral Palladium Complexes as Catalysts for Olefin-Methyl Acrylate Copolymerization: A Cautionary Tale", G. Tian, H. Boone, B. Novak, <i>American Chemical Society, Macromolecules</i> , 2001, Chapter 34, pages 7656-7663.		

As this application was filed after June 30, 2003, only copies of the foreign documents and publications are included for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of their materiality, if any, with regard to the examination of the application.

In reviewing the enclosed copies of the above publications, the Examiner is requested to ignore any underscoring or highlighting which may appear because such markings may or may not

have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

An examination of the present application considering the above documents is requested.

The Commissioner is hereby authorized to charge any fees that might be required or credit any overpayment of fees with regard to this document to Account No. 08-3150.

Respectfully submitted,

HUDAK SHUNK & FARINE CO., L.P.A.



Nestor W. Shust  
Reg. No. 23,034

2020 Front St., Suite 307  
Cuyahoga Falls, OH 44221  
330-535-2220

Attorney Docket No. 203PR07071-US-CIP2



Sheet 1 of 2

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		Atty. Docket No.: 203PR07071-US-CIP2	Serial No.: 10/614,502
		Applicant: Larry F. Rhodes et al.	
		Filing Date: 07/07/2003	Group: 1713

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing date if appropriate
	AA	3,697,490	Oct. 10, 1972	Starmer			
	AB	4,849,488	July 18, 1989	Starzewski et al.			
	AC	6,034,259	March, 7, 2000	Brookhart et al.			
	AD	6,057,466	May 2, 2000	Starzewski et al.			
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL	0 837 079	April 22, 1998	EP			X
	AM	04063810	Feb. 28, 1992	JP			X
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR		"Block Copolymers by Transformation of Living Ring-Opening Metathesis Polymerization into Controlled/"Living" Atom Transfer Radical Polymerization", S. Coca, Hyun-jong Paik, K. Matyjaszewski, <i>American Chemical Society, Macromolecules</i> , 1997, Chapter 30, pages 6513-6516.
AS		"Mechanistic Studies of the Palladium-Catalyzed Copolymerization of Ethylene and $\alpha$ -Olefins with Methyl Acrylate", S. Mecking, L. Johnson, L. Wang, M. Brookhart, <i>American Chemical Society Publication</i> , 1998, Chapter 120, pages 888-899.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				Atty. Docket No.:	Serial No.:		
				203PR07071-US-CIP2	10/614,502		
				Applicant: Larry F. Rhodes et al.			
				Filing Date: 07/07/2003	Group: 1713		
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing date if appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL						
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR		"New Catalysts for the Polymerization and Copolymerization of Functional Olefins", Ayusman Sen, <i>Polymeric Materials: Science &amp; Engineering</i> , 2001, 84, page 321.				
	AS		"Neutral Palladium Complexes as Catalysts for Olefin-Methyl Acrylate Copolymerization: A Cautionary Tale", G. Tian, H. Boone, B. Novak, <i>American Chemical Society, Macromolecules</i> , 2001, Chapter 34, pages 7656-7663.				
EXAMINER		DATE CONSIDERED					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							